



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

AMENDMENT "K" ACCOMPANYING RCE

APPLICANT(S): Takayuki Gomi et al. OLD DOCKET NO.: P97,2608  
NEW DOCKET NO.: 09792909-3746  
SERIAL NO.: 08/965,286 GROUP ART UNIT: 2811  
DATE FILED: November 6, 1997 EXAMINER: Ori Nadav  
INVENTION: "SEMICONDUCTOR DEVICE INCLUDING HIGH SPEED  
TRANSISTORS AND HIGH VOLTAGE TRANSISTORS  
DISPOSED ON A SINGLE SUBSTRATE (As Amended)"

Hon. Assistant Commissioner for Patents  
Washington, DC 20231

S I R:

This Amendment "K" is filed in response to the Final Office Action of December 9, 2002.  
Please reconsider the application in view of the amendment and remarks presented below.

IN THE CLAIMS

Please amend claims 1 and 20 as follows:

- Sub  
LI  
K'
1. (Nine Times Amended) A semiconductor device having a first vertical type bipolar transistor and a second vertical type bipolar transistor having a breakdown voltage that is higher than a breakdown voltage of the first vertical type bipolar transistor, said first vertical type bipolar transistor and said second vertical type bipolar transistor each having an emitter, a base, and a collector, the semiconductor device comprising:
- a substrate of a first conductive type;
  - an epitaxial layer formed on the substrate;
  - a first embedded diffusion layer formed as a part of the collector of the first vertical type bipolar transistor in a first upper part of the substrate and in the epitaxial layer; and
  - a second embedded diffusion layer formed as a part of the collector of the second vertical type bipolar transistor directly on the substrate, in a second upper part of the substrate.

**SONNENSCHN, NATH & ROSENTHAL**

8000 Sears Tower  
233 S. Wacker Drive  
Chicago, IL 60606  
312/876-0200

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**AMENDMENT "K" ACCOMPANYING RCE**

Hon. Assistant Commissioner of Patents

Washington D.C. 2023

SIR:

Transmitted herewith is an amendment in the above-identified application.

Additional claim fee is required.

The fee has been calculated as shown below.

THE FEE HAS BEEN CALCULATED AS SHOWN BELOW:

CLAIMS AS AMENDED							
	(2) CLAIMS REMAINING AFTER AMENDMENT		(4) HIGHEST NO. PREVIOUSLY PAID FOR	(5) PRESENT EXTRA	(6) RATE	(7) ADDITIONAL FEE	
TOTAL CLAIMS		MINUS		0	( ) X 9.00 ( ) X 18.00	0.00	
INDEP. CLAIMS		MINUS		0	( ) X 39.00 (5) X 84.00	0.00	
Application amended to contain any multiple dependent claims not previously paid for.				( ) YES (X) NO	( ) \$135.00 ( ) \$270.00 ONE TIME		
			TOTAL ADDITIONAL FEE FOR THIS AMENDMENT		\$0.00		

- Applicant petitions the Commissioner of Patents and Trademarks to extend this time for response to the Office Action dated \_\_\_\_\_ for \_\_\_\_\_ months so that the period for response is extended to \_\_\_\_\_.
- The Commissioner is hereby authorized to charge the extension of time fee of \$\_\_\_\_\_ to deposit account no. 19-3140.
- A check in the amount of \$\_\_\_\_\_ is attached to cover the additional claim fee.
- ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or to credit any overpayment to account No. 19-3140. A duplicate of this sheet is enclosed.
- When phoning re this application, please call 312/876-8000 - Ext. 2606.

SONNENSCHN NATH &amp; ROSENTHAL

DATE: March 7, 2003BY Christopher P. Rauch (Reg. No. 45,034)  
Christopher P. Rauch**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited as first class mail in an envelope addressed to BOX RCE, Asst. Commissioner of Patents, Washington, D.C. 20231 on March 7, 2003.

Christopher P. Rauch  
Christopher P. Rauch